

10/587606

SEQUENCE LISTING

JAP20 Rec'd PCT/PTO 27 JUL 2006

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Brandt-Rauf, Paul
Mao, Yueha

<120> C-Terminal p53 Palindromic Peptide That Induces Apoptosis of Cells with Aberrant p53 and Uses Thereof

<130> 68074-A-PCT-US/JPW/JW

<150> PCT/US2005/002543
<151> 2005-01-27

<150> US 60/540,864
<151> 2004-01-30

<160> 9

<170> PatentIn version 3.3

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<212> PRT

<213> Artificial Sequence

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<223> Polypeptide based on human p53

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Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
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Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp
35 40

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Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
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Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
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Gly Gly Pro Glu Lys Gly Ala Gln Ala
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<223> Xaa = Gly or absent

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Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu
35 40 45

Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys
50 55 60

Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly
65 70 75 80

Ala Gln Ala

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Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
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Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
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Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu
35 40 45

Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly
50 55 60

Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro
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70

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Asp Ser Asp

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Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
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Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu
35 40 45

Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys
50 55 60

Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly
65 70 75 80

Ala Gln Ala xaa Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala
85 90 95

His Ser Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His
100 105 110

Lys Lys Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp Xaa Asp Ser
115 120 125

Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser
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Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly
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Pro Glu Lys Gly Ala Gln Ala
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<223> Xaa = Gly or absent

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<223> Xaa = Gly or absent

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Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser
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Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser His Ala Arg Ser
20 25 30

Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln Ala Gly Lys Glu
35 40 45

Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys Ser Lys Lys Gly
50 55 60

Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys Thr Glu Gly Pro
65 70 75 80

Asp Ser Asp Xaa Asp Ser Asp Pro Gly Glu Thr Lys Phe Met Leu Lys
85 90 95

Lys His Arg Ser Thr Ser Gln Gly Lys Lys Ser Lys Leu His Ser Ser
100 105 110

His Ala Arg Ser Gly Gly Pro Glu Lys Gly Ala Gln Ala Xaa Ala Gln
115 120 125

Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His Leu Lys
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Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys
145 150 155 160

Thr Glu Gly Pro Asp Ser Asp
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Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
20 25 30

Phe Lys Thr Glu Gly Pro Asp Ser Asp Asp Ser Asp Pro Gly Glu Thr
35 40 45

Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys Lys Ser
50 55 60

Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys Gly Ala
65 70 75 80

Gln Ala Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser
85 90 95

Ser His Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys
100 105 110

Leu Met Phe Lys Thr Glu Gly Pro Asp Ser Asp Asp Ser Asp Pro Gly
115 120 125

Glu Thr Lys Phe Met Leu Lys Lys His Arg Ser Thr Ser Gln Gly Lys
130 135 140

Lys Ser Lys Leu His Ser Ser His Ala Arg Ser Gly Gly Pro Glu Lys
145 150 155 160

Gly Ala Gln Ala

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<223> Membrane carrier peptide derived from Antennaeapedia

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Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg
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Gly

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<212> DNA

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<223> Restriction enzyme site derived from human p53

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